### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re the Application of: Yoshihiro YONEDA

Art Unit: 3732

Application Number: 10/544,573

Examiner: Rachel Running Steitz

Filed: August 5, 2005

Confirmation Number: 8278

For:

**DOUBLE-STICK ADHESIVE** TAPE FOR WIG AND WIG

PROVIDED WITH THE SAME

Attorney Docket Number:

052875

Customer Number:

38834

### **SUBMISSION OF APPEAL BRIEF**

**Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

August 24, 2010

Sir:

Applicants submit herewith an Appeal Brief in the above-identified U.S. patent application.

Applicants submit herewith the payment in the amount of \$540.00 to cover the cost for the Appeal Brief. If any additional fees are due in connection with this submission, please charge Deposit Account No. 50-2866.

Respectfully submitted,

WESTERMAN, HATTORY, DANIELS & ADRIAN, LLP

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

### APPEAL BRIEF FOR THE APPELLANT

Ex parte Yoshihiro YONEDA et al. (Applicant)

## DOUBLE-STICK ADHESIVE TAPE FOR WIG AND WIG PROVIDED WITH THE SAME

Application Number: 10/544,573

Filed: August 5, 2005

Appeal No.:

Art Unit: 3732

Examiner: Rachel Running Steitz

Submitted by: Dennis M. Hubbs Registration No. 59,145 Attorney for Appellants

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**BRIEF ON APPEAL** 

### (I) REAL PARTY IN INTEREST

The real party in interest is **ADERANS CO., LTD.**, by an assignment recorded in the U.S. Patent and Trademark Office on **August 5, 2005**, at Reel **017568**, Frame **0132**.

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### (II) RELATED APPEALS AND INTERFERENCES

There are no other appeals or interferences known to appellant, appellant's legal representative, or assignee that will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

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## (III) STATUS OF CLAIMS

Claims 1, 3, 6, 8 and 14-27 are pending in the above-identified application, with claims 14-27 being withdrawn. Claims 2, 4, 5 and 9-13 are canceled. Claims 1, 3, 6 and 8 are appealed.

## (IV) STATUS OF AMENDMENTS

No amendments have been filed subsequent to final rejection.

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### (V) <u>SUMMARY OF THE CLAIMED SUBJECT MATTER</u>

### <u>Independent Claim 1:</u>

Independent claim 1 is directed to a double-stick tape for a wig. See FIGS. 1-7. Claim 1 recites a double-stick adhesive tape (FIG. 1, reference character 10; paragraph [0044]) for a wig (FIG. 1, reference character 100) having a net member (FIGS. 1 and 7, reference character 104; paragraph [0048]) as a portion of a wig base (FIG. 1, reference character 101; paragraph [0046]), a first adhesive surface layer (FIGS. 3-7, reference character 12; paragraphs [0019]-[0021] and [0049]-[0057]) having a thickness more than half of a diameter of the net member (FIGS. 1 and 7, reference character 104; paragraph [0048]) to stick to the net member, and a second adhesive surface layer (FIGS. 3-7, reference character 13; paragraphs [0019]-[0021] and [0049]-[0057])) having a thickness equal to or more than a diameter of human hair (FIGS. 5 and 6, reference character 102), wherein the first adhesive surface layer (FIGS. 3-7, reference character 12; paragraphs [0019]-[0021] and [0049]-[0057]) is thicker than the second adhesive surface layer (FIGS. 3-7, reference character 13; paragraphs [0019]-[0021] and [0049]-[0057]), and a side of the first adhesive surface layer (FIGS. 3-7, reference character 12; paragraphs [0019]-[0021] and [0049]-[0057]) to the net member (FIGS. 1 and 7, reference character 104; paragraph [0048]) has convexities and concavities (FIGS. 2(c), 5 and 6, reference character 12a) of the type formed on the surface by pressing, or blast processing, in order to scatter light (paragraph [0017] and [0057]).

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Dependent Claim 3:

Dependent claim 3 is directed to the double-stick adhesive tape for the wig. See FIGS. 1-

7. Claim 3 recites the thickness of the first adhesive surface layer (FIGS. 3-7, reference character

12; paragraphs [0019]-[0021] and [0049]-[0057]) is between 50 and 200 μm (paragraphs [0021],

[0027] and [0062]) and the thickness of the second adhesive surface layer (FIGS. 3-7, reference

character 13; paragraphs [0019]-[0021] and [0049]-[0057]) is between 50 and 150  $\mu m$ 

(paragraphs [0037] and [0063]).

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## (VI) GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

The rejection of claims 1, 3, 6 and 8 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,170,491 to *Maekawa* in view of U.S. Publication No. 2004/0237987 to *Gold*, is presented for review.

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(VII) **ARGUMENT** 

**Independent Claim 1** 

The combination of *Maekawa* and *Gold* fail to disclose or render obvious the features of

independent claim 1.

Issue 1:

Appellants submit that the references (Gold and Maekawa) would not be amenable to

combination as suggested by the examiner. It is the examiner's position that the Maekawa

reference shows all of the features of claim 1 except for the concavities and convexities in the

first adhesive surface.

In attempting to disclose the feature of convexities and concavities of the first adhesive

surface layer, the examiner points to the adhesive material disclosed in paragraph [0052] and

FIG. 8B of Gold. Here Gold discloses:

Furthermore, the adhesive material can be mixed with air dispersed in small

bubbles. When the laminar support is put on the removable film, the small bubbles or part of them explode causing many craters 15 and a discontinuous

positioning of the adhesive material on the laminar support 1.

It is the examiner's position that the craters 15 of the adhesive material disclose the

convexities and concavities of claim 1.

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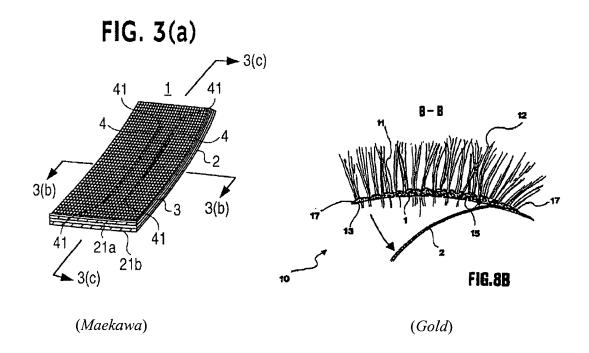
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The examiner contends that a person having ordinary skill in the art would use the adhesive material disclosed in paragraph [0052] and FIG. 8B of *Gold*, in the invention of *Maekawa* "in order to increase transpiration of the adhesion." (Page 3, paragraph 2 of final office action dated April 12, 2010.)

In other words, the examiner contends that using the structure of *Maekawa*, as shown in FIG. 3(a), and replacing the adhesive layers 21(a) and 21(b) of *Maekawa* with the adhesive of *Gold*, the convexities and concavities feature of claim 1 would be disclosed. Please see FIG. 3(a) of *Maekawa* and FIG. 8B of *Gold* below.



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Appellants respectfully disagree with the examiner. The references would not be

combined by a person having ordinary skill in the art at the time of the invention as the examiner

suggests because the references themselves teach away from the combination. Specifically,

appellants direct the Boards' attention to Gold which teaches the adhesive with small air bubbles

in order to increase transpiration:

This arrangement increases the transpiration of the adhesive and its capacity of

growth of hair through its thickness. (Paragraph [0053] of Gold.)<sup>1</sup>

This is the advantage the examiner cites to in order to provide a reason to combine the

references. However, the proposed combination does not provide the transpiration function as

the examiner suggests.

To wit, appellants note that in between the adhesives layers 21 of Maekawa, exists

flexible planar component 2 (see FIG. 3(a) of Maekawa above). As discussed in column 3, lines

6-16 of Maekawa, flexible planar component 2 is made from:

transparent or semitransparent synthesized resins such as plastics, for example

polyethylene, polypropylene and vinyl chloride.

Applicants submit that these plastics do not possess the transpiration qualities discussed

in Gold. Thus, because there is a plastic sheet in between the adhesive layers, the tape itself will

not have the transpiration properties, thus defeating the purpose of combining Gold with

Maekawa, as stated by the examiner.

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The examiner responds by stating in the office action dated April 12, 2010:

However, polyethylene is a transpiring material see Patent H2042 H Dobrin et al. that teach a breathable polyethylene material, therefore, the motivation provided by Gold would allow the device to be transpiring.<sup>2</sup>

Appellants respectfully disagree with the examiner. To wit, *Dobrin* states in column 1, lines 24 through 26:

These outer covers, generally referred to as backsheets, are often constructed from <u>fluid impervious films such as polyethylene</u>. (Emphasis added.)

Thus, according to *Dobrin*, polyethylene is impervious to fluids. As such, the examiner's position that a person having ordinary skill in the art would combine *Gold* and *Maekawa* "in order to increase the transpiration of the adhesion," is improper as the combination would reduce transpiration as the polyethylene film 2 of *Maekawa* is impervious to fluids.<sup>3</sup>

As such, appellants submit that the combination of Gold and Maekawa is improper.

<sup>1</sup> Recall that the examiner considers the air bubbles to disclose the feature of concavities and convexities in the first adhesive surface layer.

<sup>2</sup> H2042 H is a statutory invention registration.

<sup>&</sup>lt;sup>3</sup> Appellants note that *Dobrin* does discuss a film 12 which is "breathable." However this film 12 is "a <u>blend</u> of a thermoplastic polymer with an <u>inorganic material</u>." Emphasis added. Column 2, lines 61 and 62. As such, film 12 is irrelevant to the polyethylene film discussed in *Maekawa*.

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Issue 2:

The examiner contends that Maekawa discloses a double stick adhesive tape for a wig,

comprising two adhesive surface layers wherein the first adhesive surface layer has a thickness

more than half of a diameter of the net member to stick to the net member (Fig. 1b; column 2,

lines 64-68). Alteration of the thickness of the first and the second adhesive layers are

considered by the examiner to be a matter of design choice.

As shown in FIG. 1(b) of Maekawa, adhesive layers 21(a) and 21(b) have the same

thickness. As such, *Maekawa* does not disclose the features of claim 1.

Though Maekawa does not suggest a thickness of the first adhesive surface layer, the

examiner asserts that it is a matter of design choice to alter the thickness of the first adhesive

surface layer. This assertion is improper.

In this regard, *Maekawa* states:

Either surface of net-type component 3 can be stuck and fixed to the flexible planar component 2 by means of the adhesive 21a. Further, components 2, 3 also

can be sewed so that they are fixed more firmly. (Column 3, lines 54-57.) (Reference character 2 is described as "flexible planar component" and reference

character 3 is described as a "net-type component" according to *Maekawa*.)

The above passage shows that a person having ordinary skill in the art would sew a net

member 3 to planar component 2 to firmly fix it. This shows that Maekawa does not suggest:

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(1) the problem of adhesion between the net-type component and the adhesive 21a, and

(2) the thickness of the adhesive surface layer may contribute to the problem.

A person having ordinary skill in the art would try to sew the net-type component and the

adhesive together according to Maekawa. Thus, there is no evidence that to show that a person

having ordinary skill in the art would alter the thickness of the first adhesive surface layer to fix it

to firmly a net member, as suggested by the examiner.

Further, contrary to the examiner's position, a person having ordinary skill in the art

would have no reason to modify or go against the teaching of Maekawa. The thickness of the

adhesive layers is <u>not</u> simply a design choice, but serves a practical, useful and non-obvious

purpose in the application. Contrary to a design choice, the thickness of the respective adhesive

layers is <u>not</u> arbitrary and was specifically engineered so that the first adhesion layer could stick

to the net member and the second adhesion layer could stick to the hair follicle.<sup>4</sup>

That is, the thicker adhesion layer 12 is designed to hold a filament with a larger diameter

than that of human hair. As such, the first adhesion layer of claim 1 is thicker than the second

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<sup>4</sup> In re Japikse, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950) (Claims to a hydraulic power press which read on the prior art except with regard to the position of the starting switch were held unpatentable because shifting the position of the starting switch would not have modified the operation of the device.); In re Kuhle, 526 F.2d 553, 188 USPQ 7 (CCPA 1975) (the particular placement of a contact in a conductivity measuring device was held to be an obvious matter of design choice). Emphasis added. MPEP

2144.04(VI)(C).

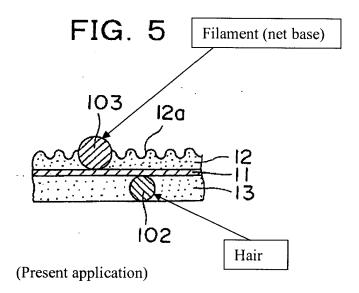
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adhesion layer of claim 1 which is designed to attach to a human hair. Please see annotated FIG. 5 of the present application below.



As described in paragraph [0035] of the present application:

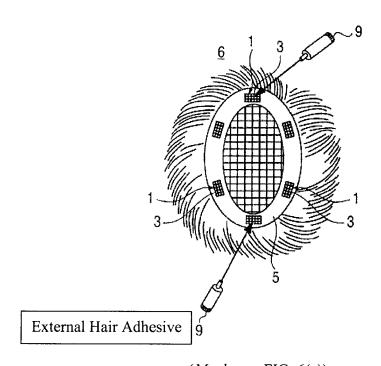
Further, the second characteristics of the double-stick adhesive tape 10 of the present invention is, as shown in Fig. 3, that at least one side of the adhesive layer 12 of adhesive layers 12, 13 is formed to have a thickness to bury more than half of a wire diameter of the filament 103 which makes up the wig base 101.

As to the thickness of the second adhesive layer, the examiner asserts that it is a matter of design choice, though *Maekawa* does not suggest a thickness of the second adhesive surface. Furthermore, *Maekawa's* double stick adhesive tape needs an external hair adhesive for the nettype component 3 for fitting a wig.

#### Maekawa states:

as shown in FIG. 6(a), an external hair adhesive 9 is applied onto the net-type component 3 of the wig-fitting component 1 fixed to the back of a wig base 5 (see column 5 lines 61 to 64).

Maekawa clearly shows that the net-type component 3 needs an external hair adhesive in order to fit the wig onto a head. (I.e., see FIG. 6(a), shown below.)



(Maekawa, FIG. 6(a))

It is clear that an external hair adhesive is applied on the net-type component 3, which the net-type component 3 is attached to the adhesive 21a, and the external hair adhesive attaches to human hair. In other words, adhesive 21a does not contact and attach to human hair.

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As such, there is no need to alter the thickness of adhesive 21a to fit the wig. Thus, there

is no motivation for a person skilled in the art to alter the thickness of the second adhesive layer

because an external hair adhesive 9 provides the required adhesiveness. Further, as the examiner

has provided no explicit rationale for the design choice, applicants respectfully submit that the

rejection is improper.

Issue 3:

Appellants submit that the claimed invention is not obvious, even if the references were

combined as suggested by the examiner. Specifically, the claimed invention lacks a net-type

component 3 of Maekawa. Regarding a net-type component 3, Maekawa discloses:

a wig-fitting component or element 1 comprises a net-type component 3 stuck on one side of a flexible planar component 2 with adhesive 21a, 21b adhered to

opposite sides of component 2. (Column 2, lines 64-67.)

and,

the adhesive 9 spreads to every corner of the natural hair and the fine meshes of

the net-type component 3, and in particular, enters such meshes. Hence, strong adhesion effects can be obtained by a so-called anchor action as compared with

the case of employing a component with a smooth surface. (See the column 6

lines 3 to 9.)

This shows that the net-type component 3 is an essential feature of *Maekawa* for anchor

action. Maekawa does not teach and suggest deletion of the net-type component 3. Gold also

does not teach a feature of a net-type component. Accordingly, there is not motivation or reason

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for a person skilled in the art to not include the net-type component 3 of Maekawa if the

references were combined.

Furthermore, the claimed invention does not need anchor action as described in

Maekawa, and the claimed invention does not require an external hair adhesive in order to fit a

wig onto a head. The examiner has neglected to consider nonexistence of a net-type component

in the claimed invention, which is another difference between the claimed invention and the cited

art. As such, applicants respectfully submit that the rejection is improper.

Thus, neither Maekawa or Gold provide a suggestion or motivation to make the

combination. Maekawa does not teach or suggest the problems discussed in the present

specification regarding a double stick adhesive not having sufficient adhesive force to hold a wig

base having a net base, while not being visible in use. There is no motivation in Maekawa

toward solving this problem.

In addition, Gold discloses that a laminar support with craters and hairs are implanted

into the laminar support. Please see FIG. 8B of Gold. Therefore the laminar support is a wig

base for implanting hairs. Furthermore, Gold discusses an arrangement of many craters and

discontinuous increases in the transpiration of the adhesive and its capacity of growth through its

thickness. However, Gold does not teach or suggest that the laminar stick is deglossed (i.e.

having convexities or concavities), or that the craters function as a deglossed surface.

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Accordingly, Gold only discloses that the craters provide a transpiring function to the wig

base with hairs implanted. In contrast, the wigs disclosed in Maekawa have net members

composed of filaments; the wigs already posses a transpiring function and there is no need to

make the wig base be transpiring. As such, there is no motivation to combine the Maekawa and

Gold references.

**Dependent Claim 3:** 

Applicants respectfully submit that the features of dependent claim 3 are not disclosed or

rendered obvious by the cited references.

Regarding dependent claim 3, the specified range of the thickness is deemed a matter of

design choice by the examiner, obtained through routine experimentation in determining

optimum results. (Page 3, paragraph 3 of the final office action dated April 12, 2010.)

As discussed above with respect to claim 1, the thickness of the first adhesive surface

and the thickness of the second adhesive surface is specifically engineered to adhere to a net

member and hair respectively. As discussed in the present application:

Thus, by providing one side of adhesive layers 12 with thickness at least half or more of the diameter of filament 103, since about the lower half of filament 103 is wrapped and peripherally adhered in adhesive layer 12 when one side of adhesive

layers 12 of the double-stick adhesive tape 10 is pressed to a net base, sufficient

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adhesive strength can be obtained compared with the prior case of linear adhesion. (Paragraph [0035].)

Further, no mention is made in *Maekawa* or the other cited references of the problems associated with a layer that is too thick. This problem however was identified by the present inventors and discussed in the present application:

Here, if the thickness t2 of said one side of adhesive layer 12 is too thick, the filament and its network are totally buried therein, become difficult to be peeled off from the wig base 101, as well as adhesive layer 12 may come out upward of the network of the net base, and may adhere to the implanted hair 102. If the thickness is as thin as, for example, 50µm or less, the peripheral bonding can not be guaranteed. (Paragraph [0037].)

As discussed in the present application, only through experimentation did the inventors determine the proper thickness of the first adhesive and the second adhesive:

However, the various repeated experiments by the inventors made it clear that the attempt of direct bonding of one side of adhesive surfaces of double-stick adhesive tape to net base resulted in bonding only on linear contact as in the case of liquid or viscous adhesive, since the cross section of a filament making up a net was circular. This is because the thickness of one side of adhesive layers of commercially available medical double-stick adhesive tape is about 30 to 50  $\mu$ m, whereas the filaments of 100 to 150 $\mu$ m are usually used since the filament making up net base needs certain strength, so that pressing the adhesive layer of double-stick adhesive tape to net base causes only linear bonding along one side of the filament with a circular cross section. (Paragraph [0007].)

As *Maekawa* does not disclose that its inventors ever contemplated any advantages or disadvantages of having different thicknesses of adhesives, the features of dependent claim 3 are not an obvious design choice as suggested by the examiner.

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### (VIII) CONCLUSION

If this paper is not timely filed, appellants hereby petition for an appropriate extension of time. The fee for any such extension may be charged to Deposit Account No. 50-2866, along with any other additional fees that may be required with respect to this paper.

Respectfully submitted,

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(IX) <u>CLAIMS APPENDIX</u>

Claim 1 (Previously Presented): A double-stick adhesive tape for a wig having a net

member as a portion of a wig base, comprising:

a first adhesive surface layer having a thickness more than half of a diameter of the net

member to stick to the net member, and

a second adhesive surface layer having a thickness equal to or more than a diameter of

human hair,

wherein the first adhesive surface layer is thicker than the second adhesive surface layer,

and a side of the first adhesive surface layer to the net member has convexities and concavities of

the type formed on the surface by pressing, or blast processing, in order to scatter light.

Claim 2 (Canceled)

Claim 3 (Previously Presented): The double-stick adhesive tape for the wig as set forth in

claim 1, wherein the thickness of the first adhesive surface layer is between 50 and 200 µm and

the thickness of the second adhesive surface layer is between 50 and 150  $\mu m$ .

Claim 4 (Canceled)

Claim 5 (Canceled)

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Claim 6 (Previously Presented): The double-stick adhesive tape for the wig as set forth in

1, wherein the concavities and convexities are provided by pressing the first adhesive surface

layer with a press.

Claim 7 (Canceled)

Claim 8 (Previously Presented): The double-stick adhesive tape for the wig as set forth in

claim 1, wherein the concavities and convexities are formed by blast processing.

Claim 9 - 13 (Canceled)

Claim 14 (Withdrawn) A wig characterized in that it is the wig comprising:

a wig base having a net member at least as a portion;

hairs implanted to said wig base; and

double-stick adhesive tapes for the wig having adhesive layers on both sides of a core

material respectively, with one side of the adhesive layers bonded to said wig base, and with the

other side of the adhesive layers bonded to a wearer's head; and

the surface of said one side of the adhesive layers of said double stick adhesive tape is

deglossed.

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Claim 15 (Withdrawn) A wig characterized in that it is the wig comprising:

a wig base having net member at least as a portion;

hairs implanted to said wig base; and

double-stick adhesive tapes having adhesive layers on both sides of a core material respectively, with one side of the adhesive layers bonded to said wig base, and with the other side of the adhesive layers bonded to a wearer's head; and

the surface of said one side of the adhesive layers of said double stick adhesive tape is deglossed, and said deglossed side of the adhesive layers is set inside of the network of said net member, and bonded to said net member.

Claim 16 (Withdrawn) The wig as set forth in claim 14 or 15, characterized in that the surface of said one side of adhesive layers of said double stick adhesive tape is deglossed by forming minute concavity and convexity on it.

Claim 17 (Withdrawn) The wig as set forth in claim 14 or 15, characterized in that said minute concavity and convexity on the surface of said one side of adhesive layers are provided by pressing said adhesive layer with a press having minute saliences.

Claim 18 (Withdrawn) The wig as set forth in claim 14 or 15, characterized in that said minute concavity and convexity on the surface of said one side of adhesive layers are formed by spray-coating granular adhesive on the surface of the core material.

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Claim 19 (Withdrawn) The wig as set forth in claim 14 or 15, characterized in that said

minute concavity and convexity on the surface of said one side of adhesive layers are provided by

blast processing.

Claim 20 (Withdrawn) The wig as set forth in claim 19, characterized in that said blast

processing is conducted by using finely crashed dry ice or ice as blast material, and blasting said

blast material onto the surface of said one side of adhesive layers.

Claim 21 (Withdrawn) The wig as set forth in claim 16, characterized in that the surface

roughness of said minute concavity and convexity is made larger than light wavelength.

Claim 22 (Withdrawn) A wig characterized in that it is the wig comprising:

a wig base having a net member at least as a portion;

hairs implanted to said wig base; and

double-stick adhesive tapes having adhesive layers on both sides of a core material

respectively, with one side of the adhesive layers bonded to said wig base, and with the other side

of the adhesive layers bonded to a wearer's head; and

said one side of the adhesive layers of said double-stick adhesive tape is formed to have a

thickness to bury more than half of a wire diameter of said net member, and said one side of the

adhesive layers is set inside of the network of said net member, and bonded to said net member.

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Claim 23 (Withdrawn) A wig characterized in that it is the wig comprising:

a wig base comprising net member at least as a portion;

hairs implanted to said wig base; and

double-stick adhesive tapes having adhesive layers on both sides of a core material respectively, with one side of the adhesive layers bonded to said wig base, and with the other side of the adhesive layers bonded to a wearer's head; and

said one side of the adhesive layers of said double-stick adhesive tape is formed to have a thickness to bury more than half of a wire diameter of said net member, and the surface of said one side of the adhesive layers is deglossed; and

said one side of the adhesive layers is set inside of the network of said net member, and bonded to said net member.

Claim 24 (Withdrawn) The wig as set forth in claim 16, characterized in that one side of adhesive layers of said double-stick adhesive tape is formed to have a thickness equal to, or more than said net member.

Claim 25 (Withdrawn) The wig as set forth in claim 24, characterized in that the thickness of one side of adhesive layers of said double-stick adhesive tape is in the range between 50 and 200  $\mu m$ .

Claim 26 (Withdrawn) The wig as set forth in any one of claims 14, 15, 22 or 23, characterized in that the other side of adhesive layers of said double-stick adhesive tape is formed to have the thickness equal to, or more than the diameter of a hair.

Claim 27 (Withdrawn) The wig as set forth in claim 26, characterized in that the thickness of the other side of adhesive layers of said double-stick adhesive tape is 50  $\mu m$  or more.

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## (X) EVIDENCE APPENDIX

n/a

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## (XI) RELATED PROCEEDINGS APPENDIX

n/a